

# Assignment2

March 10, 2025

## 1 GDS Assignment 2 - Rasmus Dübeck Kristensen

### 2 Part 1

Generate a full clean dataset (notice: last assignment I only generated the 'content' column, not the full set). Therefore I have included this excerpt from assignment 1:

```
[23]: import pandas as pd
import re

# Load the data
data = pd.read_csv("news_sample.csv")

# Compile regex patterns
date_regex = re.compile(r"""
\b(
    (?:\d{1,2}[./-]\d{1,2}[./-]\d{2,4}) | # 01/01/2025, 1.1.2025, 1-1-25
    (?:\d{4}[./-]\d{1,2}[./-]\d{1,2}) | # 2025/01/01, 2025-1-1
    (?:\b(?:\d{1,2})(?:st|nd|rd|th)?\s+(?:of\s+)?[A-Za-z]+\s+\d{4}\b) | # 1st
    ↪January 2025, 2nd of February 2024
    (?:\b[A-Za-z]+\s+(?:\d{1,2})(?:st|nd|rd|th)?\s+\d{4}\b) | # January 1st
    ↪2025, March 2nd, 2023
    (?:\b[A-Za-z]+\s+\d{4}\b) # January 2025, March 2024
)\b
""", re.VERBOSE | re.IGNORECASE)

number_regex = re.compile(r'(\d+)')
email_regex = re.compile(r'\b[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Z|a-z]{2,}\b')
url_regex = re.compile(r'\b(?:http[s]?://|www\.)[^s<>"]+|www\.[^s<>"]+\b')
whitespace_regex = re.compile(r'\s+')

def clean_text(text):
    text = str(text).lower()
    text = re.sub(whitespace_regex, ' ', text) # Replace multiple whitespace
    ↪with a single space
    text = re.sub(date_regex, "<DATE>", text)
    text = re.sub(url_regex, "<URL>", text)
```

```

    text = re.sub(email_regex, "<EMAIL>", text)
    text = re.sub(number_regex, "<NUM>", text)
    return text.strip()

# Clean all columns in the dataframe
for column in data.columns:
    if data[column].dtype == 'object': # Only clean text columns
        data[column] = data[column].apply(clean_text)

# Save cleaned data to a new CSV file
data.to_csv("cleaned_news_sample.csv", index=False)

print("Cleaning complete! Data saved to cleaned_news_sample.csv.")

```

Cleaning complete! Data saved to cleaned\_news\_sample.csv.

Import full dataset:

```
[24]: cleaned_data = pd.read_csv('cleaned_news_sample.csv')
```

## 2.1 Part 1 - import clean dataset + dataset analysis

Article types that should certainly be omitted: “unknown” and “missing value” since they aren’t categorized.

Group the remaining types into ‘fake’ and ‘reliable’:

- hate: should be grouped ‘fake’ since it actively promotes racism, homophobia and other forms of discrimination, which is clearly not characteristic of reliable media
- conspiracy: ‘fake’
- clickbait: ‘reliable’ since the content is generally credible in spite of exaggerating headlines
- bias: ‘fake’. Labeled as ‘extreme bias’ and containing “opinions distorted as facts” in the ReadMe
- political: ‘reliable’ since it is generally credible
- junksci: ‘fake’ since it contains sources that promote ‘pseudoscience, naturalistic fallacies, and other scientifically dubious claims’.

The dataset is not balanced. Only a few (3 out of 244) articles are “reliable” (24 if we include “clickbait” and “political”).

Discuss the importance of a balanced distribution: This dataset doesn’t seem representative of the actual diversity of information sources and could lead to biased conclusions. A dataset with a disproportionate number of unreliable or biased entries may over-represent certain viewpoints while under-representing others, leading to skewed results in any analysis or model built from the data. For instance, if the majority of articles are unreliable, any machine learning model trained on this data might learn to perpetuate unreliable patterns, thus affecting its generalization and predictive accuracy. A balanced distribution, where each category (reliable vs. unreliable) is

properly represented, is crucial for ensuring that the analysis reflects a more accurate and fair representation of the real-world scenario.

Here is a plot of the skewed distribution of types:

```
[30]: import matplotlib.pyplot as plt

# Load the dataset
data = cleaned_data

# Define a mapping for types to "fake" and "reliable"
type_mapping = {
    'hate': 'fake',
    'conspiracy': 'fake',
    'clickbait': 'reliable',
    'bias': 'fake',
    'political': 'reliable',
    'junksci': 'fake',
    # Add any other types here as needed
}

# Filter out "unknown" and "missing value" and create a copy
filtered_data = data[~data['type'].isin(['unknown', 'missing value'])].copy()

# Apply the type mapping to create a new 'grouped_type' column
filtered_data['grouped_type'] = filtered_data['type'].map(type_mapping).
    ↪fillna('fake')

# Count the occurrences of each type before grouping
before_grouping = filtered_data['type'].value_counts()

# Apply the type mapping to create a new 'grouped_type' column
filtered_data['grouped_type'] = filtered_data['type'].map(type_mapping).
    ↪fillna('fake')

# Count the occurrences of 'fake' and 'reliable' after grouping
after_grouping = filtered_data['grouped_type'].value_counts()

# Plot the data
fig, ax = plt.subplots(1, 2, figsize=(14, 6))

# Plot before grouping
ax[0].bar(before_grouping.index, before_grouping.values, color='lightblue')
ax[0].set_title('Article Types Before Grouping')
ax[0].set_xlabel('Type')
ax[0].set_ylabel('Count')
ax[0].tick_params(axis='x', rotation=45)
```

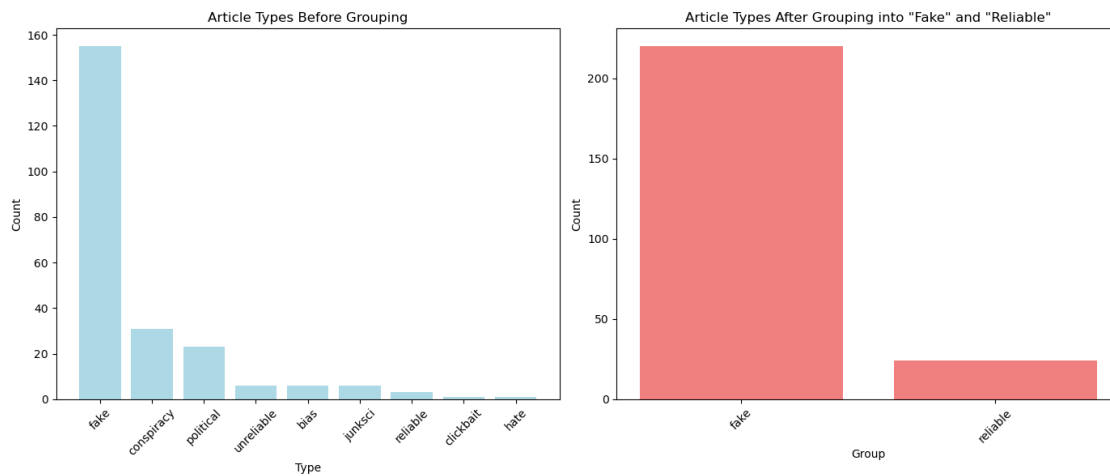
```

# Plot after grouping
ax[1].bar(after_grouping.index, after_grouping.values, color='lightcoral')
ax[1].set_title('Article Types After Grouping into "Fake" and "Reliable"')
ax[1].set_xlabel('Group')
ax[1].set_ylabel('Count')
ax[1].tick_params(axis='x', rotation=45)

# Show the plot
plt.tight_layout()
plt.show()

# Optionally, print out the mapping result to debug
print(after_grouping)

```



```

grouped_type
fake      220
reliable   24
Name: count, dtype: int64

```

### 3 Part 2

Remember to accept cookies manually!

```

[ ]: import csv
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from selenium.common.exceptions import TimeoutException, ␣
    ␣StaleElementReferenceException

```

```

# List of URLs to scrape
urls = [
    'https://www.bbc.com/news/world/europe',
    'https://www.bbc.com/news/us-canada',
    'https://www.bbc.com/news/uk',
    'https://www.bbc.com/news/world/australia',
    'https://www.bbc.com/news/world/africa',
    'https://www.bbc.com/news/world/asia',
    'https://www.bbc.com/news/world/latin_america',
    'https://www.bbc.com/news/world/middle_east'
]

# Start webdriver
browser = webdriver.Firefox()
browser.get(urls[0])

# Remember to accept cookies manually!
input("Notice! Make sure to manually agree to cookies twice before pressing␣
↵enter...")

# Funktion til at finde antal sider
def get_button_text(browser):
    try:
        button = WebDriverWait(browser, 10).until(
            EC.presence_of_element_located((By.CSS_SELECTOR, "button.
↵sc-944f9211-1:nth-child(8)"))
        )
        return int(button.text)
    except (TimeoutException, StaleElementReferenceException) as e:
        print(f"Error: button not found{e}")
        return 1 # Default to 1 page

# Scraping function
def scrape(url, browser):
    articles = {}

    # Find number of pages
    num_pages = get_button_text(browser)

    for page in range(num_pages):
        # Find all article-containere
        all_articles = browser.find_elements(By.CSS_SELECTOR,␣
↵"div[data-testid='dundee-card'], div[data-testid='liverpool-card']")

        # Iterate through each article and extract
        for article in all_articles:
            # Get h2 (headline)

```

```

        h2_element = article.find_elements(By.CSS_SELECTOR,
↪ "h2[data-testid='card-headline']")
        h2 = h2_element[0].text.strip() if h2_element else ""

        # Get summary
        summary_element = article.find_elements(By.CSS_SELECTOR,
↪ "p[data-testid='card-description']")
        summary = summary_element[0].text.strip() if summary_element else ""

        # Get link (URL)
        link_element = article.find_elements(By.CSS_SELECTOR,
↪ "a[data-testid='internal-link']")
        article_link = link_element[0].get_attribute("href") if
↪ link_element else ""

        # Save only articles with headline and description
        if h2 and summary and article_link:
            if article_link in articles:
                existing_article = articles[article_link]
                existing_fields = sum(1 for value in existing_article.
↪ values() if value)
                new_fields = sum(1 for value in [h2, summary, article_link]
↪ if value)

                if new_fields > existing_fields:
                    articles[article_link] = {'h2': h2, 'summary': summary}
                else:
                    articles[article_link] = {'h2': h2, 'summary': summary}

        # Click "next" button, if possible
        try:
            button = WebDriverWait(browser, 10).until(EC.
↪ element_to_be_clickable((By.CSS_SELECTOR,
↪ "button[data-testid='pagination-next-button']")))
            button.click()
        except TimeoutException:
            print(f"No 'Next' button found on page {page + 1} of {url}."
↪ Stopping.")
            break

        return articles

# Loop for each URL
all_articles_data = {}

for url in urls:

```

```

browser.get(url)
articles = scrape(url, browser)
all_articles_data.update(articles)

# Number of articles found
valid_article_count = len(all_articles_data)
print(f"Total number of articles with headline and summary:␣
↪{valid_article_count}")

# Close browser
browser.quit()

# Save to CSV
with open('bbc_articles.csv', mode='w', newline='', encoding='utf-8') as file:
    writer = csv.writer(file)
    writer.writerow(["Headline", "Summary", "URL"])

    for article_url, article in all_articles_data.items():
        writer.writerow([article["h2"], article["summary"], article_url])

print("Scraping complete! Data saved to bbc_articles.csv.")

```

No 'Next' button found on page 12 of <https://www.bbc.com/news/world/europe>.  
Stopping.  
No 'Next' button found on page 12 of <https://www.bbc.com/news/us-canada>.  
Stopping.  
No 'Next' button found on page 12 of <https://www.bbc.com/news/uk>. Stopping.  
No 'Next' button found on page 12 of <https://www.bbc.com/news/world/australia>.  
Stopping.  
No 'Next' button found on page 12 of <https://www.bbc.com/news/world/africa>.  
Stopping.  
No 'Next' button found on page 12 of <https://www.bbc.com/news/world/asia>.  
Stopping.  
No 'Next' button found on page 12 of [https://www.bbc.com/news/world/latin\\_america](https://www.bbc.com/news/world/latin_america). Stopping.  
No 'Next' button found on page 11 of [https://www.bbc.com/news/world/middle\\_east](https://www.bbc.com/news/world/middle_east).  
Stopping.  
Total number of articles with headline and summary: 848  
Scraping complete! Data saved to bbc\_articles.csv.

## 4 Part 3

```

[27]: import time
      from datetime import datetime

      def text_scrape(url, browser):
          try:

```

```

print(f"Scraping: {url}")
browser.get(url)

# Headline
headline_element = WebDriverWait(browser, 10).until(
    EC.presence_of_element_located((By.CSS_SELECTOR, "h1"))
)
headline = headline_element.text.strip()

# Article Text
text_element = browser.find_elements(By.CSS_SELECTOR,
    "div.sc-18fde0d6-0.dlWCEZ[data-component='text-block'],
↪ "
    "div.ssrcss-7uxr49-RichTextContainer.e5tfeyi1"
)
text = " ".join([p.text for p in text_element])

# Published Date
published_date_element = browser.find_elements(By.CSS_SELECTOR, "time")
published_date_raw = published_date_element[0].
↪ get_attribute("datetime") if published_date_element else "Unknown"
    if published_date_raw != "Unknown":
        published_date = datetime.fromisoformat(published_date_raw.
↪ replace("Z", "").strftime("%Y-%m-%d %H:%M:%S"))
    else:
        published_date = "Unknown"

# Fix for multiple authors
author_elements = browser.find_elements(By.CSS_SELECTOR, "span.
↪ sc-b42e7a8f-7.kItaYD")
authors = [element.text.strip() for element in author_elements if
↪ element.text.strip()]
author = ", ".join(authors) if authors else "Unknown"

return {
    'url': url,
    'headline': headline,
    'text': text,
    'published_date': published_date,
    'author': author
}
except Exception as e:
    print(f"Error scraping {url}: {e}")
    return None

def read_urls_from_csv(file_name):

```



```

urls = []
with open(file_name, mode='r', newline='', encoding='utf-8') as file:
    reader = csv.DictReader(file)
    for row in reader:
        urls.append(row['URL'])
return urls

def scrape_all_articles(urls, browser):
    articles = []

    for url in urls:
        article_data = text_scrape(url, browser)
        if article_data:
            articles.append(article_data)
            time.sleep(2) # Adding delay to avoid being blocked

    return articles

# Start browser
browser = webdriver.Firefox()

# Read URLs from CSV file
urls = read_urls_from_csv("bbc_articles.csv")

# Scrape articles
scraped_data = scrape_all_articles(urls, browser)

# Close browser
browser.quit()

# Save to CSV
with open('scraped_articles_text_headline_date_author.csv', mode='w',
    ↪newline='', encoding='utf-8') as file:
    writer = csv.writer(file)
    writer.writerow(["URL", "Headline", "Text", "Published Date", "Author"])

    for article in scraped_data:
        writer.writerow([article["url"], article["headline"], article["text"],
    ↪article["published_date"], article["author"]])

print("Scraping complete! Data saved to
    ↪scraped_articles_text_headline_date_author.csv.")

```

Scraping: <https://www.bbc.com/news/articles/cy9dp5rr2x9o>  
 Scraping: <https://www.bbc.com/news/articles/cy87vg38dnpo>  
 Scraping: <https://www.bbc.com/news/articles/c62k0kxwzywo>  
 Scraping: <https://www.bbc.com/news/articles/c3w195pgp40o>

Scraping: <https://www.bbc.com/news/articles/crknjxj3n4zo>  
Scraping: <https://www.bbc.com/news/articles/cqjd78jppqj9o>  
Scraping: <https://www.bbc.com/news/articles/c0rz0jvvpwwo>  
Scraping: <https://www.bbc.com/news/articles/c1kjwmzvzg23o>  
Scraping: <https://www.bbc.com/news/articles/cy83r93l208o>  
Scraping: <https://www.bbc.com/news/articles/crmjewpkje9o>  
Scraping: <https://www.bbc.com/news/articles/c627685p21eo>  
Scraping: <https://www.bbc.com/news/articles/c17qnxrq1y7o>  
Scraping: <https://www.bbc.com/news/articles/czedpnen168o>  
Scraping: <https://www.bbc.com/news/articles/cz7v1ejv01go>  
Scraping: <https://www.bbc.com/news/videos/cd65nl7n6y9o>  
Scraping: <https://www.bbc.com/news/videos/c798q33r9gjo>  
Scraping: <https://www.bbc.com/news/videos/cvgw91rvn8xo>  
Scraping: <https://www.bbc.com/news/videos/c04zgkrgdq0o>  
Scraping: <https://www.bbc.com/news/articles/ce8v6len093o>  
Scraping: <https://www.bbc.com/news/world-europe-60506682>  
Scraping: <https://www.bbc.com/news/articles/cj0q964851po>  
Scraping: <https://www.bbc.com/news/articles/c2015dn39w2o>  
Scraping: <https://www.bbc.com/news/articles/c62k04z5vqvo>  
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Scraping: <https://www.bbc.com/news/articles/c9vygkzkkrrvo>  
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Scraping: <https://www.bbc.com/news/articles/c8j0ggm3mdwo>  
Scraping: <https://www.bbc.com/news/articles/ce98v8mnm3o>  
Scraping: <https://www.bbc.com/news/articles/cn04551n6wpo>  
Scraping: <https://www.bbc.com/news/articles/c2kgqdkx9jxo>  
Scraping: <https://www.bbc.com/news/videos/c24199147d2o>  
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Scraping: <https://www.bbc.com/news/articles/c8j0e7ye4m4o>  
Scraping: <https://www.bbc.com/news/videos/c5y2pdz5wwyo>  
Scraping: <https://www.bbc.com/news/articles/c3e44qev1dvo>  
Scraping: <https://www.bbc.com/news/articles/czxnnzz558eo>  
Scraping: <https://www.bbc.com/news/articles/cq5zzn81229o>  
Scraping: <https://www.bbc.com/news/articles/cge11q4xwr3o>  
Scraping: <https://www.bbc.com/news/articles/cly7yxm3py5o>  
Scraping: <https://www.bbc.com/news/articles/cpq222rqv4po>

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Scraping: <https://www.bbc.com/news/articles/c0q1188p1n2o>  
Scraping: <https://www.bbc.com/news/articles/c23444ddzjyo>  
Scraping: <https://www.bbc.com/news/articles/c0l11gr35gwo>  
Scraping: <https://www.bbc.com/news/articles/c17qe11wy52o>  
Scraping: <https://www.bbc.com/news/articles/c9de53y43lvo>  
Scraping: <https://www.bbc.com/news/articles/cdrxy1zp8mxo>  
Scraping: <https://www.bbc.com/news/articles/c39v779xpdno>  
Scraping: <https://www.bbc.com/news/articles/cwydlr3reqpo>  
Scraping: <https://www.bbc.com/news/articles/cz61nn99eg1o>  
Scraping: <https://www.bbc.com/news/articles/cnvze9dzq8vo>  
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The element with the reference 76008022-6804-4eb9-bb80-6167fed0ba17 is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
Stacktrace:
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
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cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
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receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
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Error scraping https://www.bbc.com/sport/cricket/articles/c4gdx723ego: Message:
The element with the reference 45050e47-3f66-49ce-a22b-63deee12002e is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
Stacktrace:
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10

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receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
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Scraping: https://www.bbc.com/sport/football/articles/c20kezxd0r9o
Error scraping https://www.bbc.com/sport/football/articles/c20kezxd0r9o:
Message: The element with the reference 62eed4c3-7268-4f50-86f9-9d5271796dd4 is
stale; either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
Stacktrace:
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
.sys.mjs:195:30
```

```
Scraping: https://www.bbc.com/sport/cricket/articles/c5y7m4per1do
Error scraping https://www.bbc.com/sport/cricket/articles/c5y7m4per1do: Message:
The element with the reference 022badee-a802-48ac-981c-b1ff629f0dd8 is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
Stacktrace:
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
.sys.mjs:195:30
```

Scraping: <https://www.bbc.com/sport/cricket/articles/c2eg0j1rvn0o>  
Scraping: <https://www.bbc.com/news/articles/c17ejwnywyno>  
Scraping: <https://www.bbc.com/news/articles/c626qwvekl1o>  
Scraping: <https://www.bbc.com/news/articles/cgmypx0wldro>  
Scraping: <https://www.bbc.com/sport/cricket/articles/cj91pl23d8ro>  
Error scraping <https://www.bbc.com/sport/cricket/articles/cj91pl23d8ro>: Message:  
The element with the reference 6d2d82e1-4999-4c3d-a643-06e67c9c3df8 is stale;  
either its node document is not the active document, or it is no longer  
connected to the DOM; For documentation on this error, please visit:  
[https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-  
element-reference-exception](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
Stacktrace:  
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8  
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5  
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m  
js:755:5  
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11  
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20  
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24  
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16  
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10  
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild  
.sys.mjs:195:30

Scraping: <https://www.bbc.com/news/articles/cn8x98z0kv1o>  
Scraping: <https://www.bbc.com/news/articles/cy9l1w5zlgdo>  
Scraping: <https://www.bbc.com/sport/cricket/articles/cx2j4xvqvjpo>  
Error scraping <https://www.bbc.com/sport/cricket/articles/cx2j4xvqvjpo>: Message:  
The element with the reference fbe8e5e7-e778-4da5-87c2-4e077547f0d8 is stale;  
either its node document is not the active document, or it is no longer  
connected to the DOM; For documentation on this error, please visit:  
[https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-  
element-reference-exception](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
Stacktrace:  
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8  
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5  
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m  
js:755:5  
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11  
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20  
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24  
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16  
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10  
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild  
.sys.mjs:195:30

Scraping: <https://www.bbc.com/news/articles/cvgpvrgezp3o>  
Scraping: <https://www.bbc.com/news/articles/cn57gk917dpo>

Scraping: <https://www.bbc.com/news/articles/c36037251gpo>  
 Scraping: <https://www.bbc.com/news/articles/cp3j2w41qkko>  
 Scraping: <https://www.bbc.com/news/articles/cn4z2py8448o>  
 Scraping: <https://www.bbc.com/news/articles/ckgn1dd6g1po>  
 Scraping: <https://www.bbc.com/sport/cricket/articles/czdlryjj7vmo>  
 Error scraping <https://www.bbc.com/sport/cricket/articles/czdlryjj7vmo>: Message:  
 The element with the reference 5c8db70b-8dcd-435e-8419-68224393b9d0 is stale;  
 either its node document is not the active document, or it is no longer  
 connected to the DOM; For documentation on this error, please visit:  
[https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
[element-reference-exception](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
 Stacktrace:  
 RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8  
 WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5  
 StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5  
 getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11  
 deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20  
 cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24  
 deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16  
 json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10  
 receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30

Scraping: <https://www.bbc.com/news/articles/c74mjxmg10zo>  
 Scraping: <https://www.bbc.com/news/articles/c70qxq49ejlo>  
 Scraping: <https://www.bbc.com/news/articles/cvgpnqe91j1o>  
 Scraping: <https://www.bbc.com/news/articles/c70qn5yyw57o>  
 Scraping: <https://www.bbc.com/news/articles/c8057j0mz5mo>  
 Scraping: <https://www.bbc.com/news/articles/cpql7wdz5vyo>  
 Scraping: <https://www.bbc.com/news/articles/c93l8j1j8yvo>  
 Scraping: <https://www.bbc.com/news/articles/cnvqjrlj8d6o>  
 Scraping: <https://www.bbc.com/news/articles/c3vp5x6wdvo>  
 Scraping: <https://www.bbc.com/sport/cricket/articles/c75w5v5z7ngo>  
 Scraping: <https://www.bbc.com/news/articles/cpw2w8qd7klo>  
 Scraping: <https://www.bbc.com/news/articles/c5ywy9xln2yo>  
 Scraping: <https://www.bbc.com/news/articles/cx2v14vxdjeo>  
 Scraping: <https://www.bbc.com/sport/cricket/articles/c8xjw8v99kdo>  
 Error scraping <https://www.bbc.com/sport/cricket/articles/c8xjw8v99kdo>: Message:  
 The element with the reference e364440f-fc4f-4739-9afb-c9d7d458e4ad is stale;  
 either its node document is not the active document, or it is no longer  
 connected to the DOM; For documentation on this error, please visit:  
[https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
[element-reference-exception](https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception)  
 Stacktrace:  
 RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8  
 WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5  
 StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5

```
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
.sys.mjs:195:30
```

```
Scraping: https://www.bbc.com/news/articles/cjdnkdgl18do
Scraping: https://www.bbc.com/news/articles/cvgxz76m1g8o
Scraping: https://www.bbc.com/news/articles/cx2w10wy1jyo
Scraping: https://www.bbc.com/news/articles/c0j15l83v7jo
Scraping: https://www.bbc.com/sport/cricket/articles/ckg9j7yr3xzo
Error scraping https://www.bbc.com/sport/cricket/articles/ckg9j7yr3xzo: Message:
The element with the reference 0151e855-aa08-469e-b025-ee8547d4a670 is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
```

Stacktrace:

```
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
.sys.mjs:195:30
```

```
Scraping: https://www.bbc.com/news/articles/c20ezgv89edo
Scraping: https://www.bbc.com/news/articles/cx2we313k6ro
Scraping: https://www.bbc.com/sport/cricket/articles/czx5n6lzl1eyo
Scraping: https://www.bbc.com/news/articles/c983dj1g2p3o
Scraping: https://www.bbc.com/news/articles/cp9n4vyjy2mo
Scraping: https://www.bbc.com/sport/cricket/articles/c2kxzg08nlpo
Error scraping https://www.bbc.com/sport/cricket/articles/c2kxzg08nlpo: Message:
The element with the reference e3331413-32dc-4c94-9d82-a02c3a07bd28 is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
```

Stacktrace:

```
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
```

```
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30
```

```
Scraping: https://www.bbc.com/news/articles/cjr2l1gvg3qo
Scraping: https://www.bbc.com/news/articles/cp8nkxrrnpzo
Scraping: https://www.bbc.com/news/articles/c140xed6252o
Scraping: https://www.bbc.com/news/articles/clyj6ddlzdoro
Scraping: https://www.bbc.com/news/articles/c62zgemkexdo
Scraping: https://www.bbc.com/news/articles/cy4pvgjklevo
Scraping: https://www.bbc.com/news/articles/cdxzqrrrv72o
Scraping: https://www.bbc.com/news/articles/c9q74gx39p7o
Scraping: https://www.bbc.com/news/articles/crmn74m1jkpo
Scraping: https://www.bbc.com/news/articles/c938l80ekejjo
Scraping: https://www.bbc.com/news/articles/c5ydr228jyko
Scraping: https://www.bbc.com/news/articles/cy8y4zxred7o
Scraping: https://www.bbc.com/news/articles/cn4x78eemmpo
Scraping: https://www.bbc.com/news/articles/c8xpx2dgl94o
Scraping: https://www.bbc.com/sport/cricket/articles/c8jyj98wml2o
Error scraping https://www.bbc.com/sport/cricket/articles/c8jyj98wml2o: Message:
The element with the reference 7f750c29-a168-47dc-a9fe-9372c4be2041 is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
```

Stacktrace:

```
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30
```

```
Scraping: https://www.bbc.com/news/videos/c8rl74nrjpmo
Scraping: https://www.bbc.com/news/articles/c4gznvw3wneo
Scraping: https://www.bbc.com/news/articles/c89vjj0lxx9o
Scraping: https://www.bbc.com/news/videos/cgej3j49pywo
```

```

Scraping: https://www.bbc.com/sport/cricket/articles/ceqx4nydpy2o
Scraping: https://www.bbc.com/news/articles/c5yp7g9r8j5o
Scraping: https://www.bbc.com/sport/cricket/articles/c9wr4j18kego
Scraping: https://www.bbc.com/news/articles/cvg4v74drnmo
Scraping: https://www.bbc.com/news/articles/c5y5z4j3y2xo
Scraping: https://www.bbc.com/news/articles/cgl4dyjg57do
Scraping: https://www.bbc.com/news/articles/c4gz84jy9ypo
Scraping: https://www.bbc.com/news/articles/cz0memjm3jro
Scraping: https://www.bbc.com/news/articles/cx27v4v1l5wo
Scraping: https://www.bbc.com/sport/cricket/articles/cn4v23e3kgjo
Error scraping https://www.bbc.com/sport/cricket/articles/cn4v23e3kgjo: Message:
The element with the reference 5cc0dc66-7cd4-424e-b24a-c5394e30434b is stale;
either its node document is not the active document, or it is no longer
connected to the DOM; For documentation on this error, please visit:
https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-
element-reference-exception
Stacktrace:
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.m
js:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild
.sys.mjs:195:30

Scraping: https://www.bbc.com/news/articles/clyvkxdxprlo
Scraping: https://www.bbc.com/news/articles/cg4l3yz76neo
Scraping: https://www.bbc.com/news/articles/c5yx9j94z5ro
Scraping: https://www.bbc.com/news/articles/c170n974091o
Scraping: https://www.bbc.com/news/articles/c5y4077gg0yo
Scraping: https://www.bbc.com/news/articles/c8x414kyl1no
Scraping: https://www.bbc.com/news/articles/clyzkv7yl43o
Scraping: https://www.bbc.com/news/articles/cvgepq6269vo
Scraping: https://www.bbc.com/news/articles/cp8vz6mxxrxo
Scraping: https://www.bbc.com/news/articles/czdnv6gpezjo
Scraping: https://www.bbc.com/news/articles/c93k9476694o
Scraping: https://www.bbc.com/news/articles/cp8vyl3j5kko
Scraping: https://www.bbc.com/news/articles/c89yp2xjzjko
Scraping: https://www.bbc.com/news/articles/cedl8eyy4pjo
Scraping: https://www.bbc.com/news/articles/cx2e63930qxo
Scraping: https://www.bbc.com/news/articles/cx2eyqz49v5o
Scraping: https://www.bbc.com/sport/tennis/articles/cedlg14lj23o
Scraping: https://www.bbc.com/sport/football/articles/c3e479j3njgo
Error scraping https://www.bbc.com/sport/football/articles/c3e479j3njgo:

```

Message: The element with the reference 30919335-c0b1-4a18-82d5-133b308dded1 is stale; either its node document is not the active document, or it is no longer connected to the DOM; For documentation on this error, please visit:

<https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception>

Stacktrace:

RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8

WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5

StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5

getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11

deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20

cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24

deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16

json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10

receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30

Scraping: <https://www.bbc.com/sport/football/articles/cy5n0l2wz7ro>

Error scraping <https://www.bbc.com/sport/football/articles/cy5n0l2wz7ro>:

Message: The element with the reference c83db3ca-6f53-4900-ab59-2fa7fb1b90f5 is stale; either its node document is not the active document, or it is no longer connected to the DOM; For documentation on this error, please visit:

<https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception>

Stacktrace:

RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8

WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5

StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5

getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11

deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20

cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24

deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16

json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10

receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30

Scraping: <https://www.bbc.com/sport/cycling/articles/c625ddzrvvko>

Error scraping <https://www.bbc.com/sport/cycling/articles/c625ddzrvvko>: Message:

The element with the reference f4577166-b979-47a3-b4eb-f5206a853ad7 is stale; either its node document is not the active document, or it is no longer connected to the DOM; For documentation on this error, please visit:

<https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception>

Stacktrace:

RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8

WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5



```
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5
getKnownElement@chrome://remote/content/marionette/json.sys.mjs:405:11
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30
```

Scraping: <https://www.bbc.com/sport/olympics/articles/cz61341xv0jo>  
Error scraping <https://www.bbc.com/sport/olympics/articles/cz61341xv0jo>:  
Message: The element with the reference 560f2cb4-6df8-4521-94ac-c1a3aba9b6e2 is stale; either its node document is not the active document, or it is no longer connected to the DOM; For documentation on this error, please visit:  
<https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#stale-element-reference-exception>

Stacktrace:

```
RemoteError@chrome://remote/content/shared/RemoteError.sys.mjs:8:8
WebDriverError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:197:5
StaleElementReferenceError@chrome://remote/content/shared/webdriver/Errors.sys.mjs:755:5
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deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:263:20
cloneObject@chrome://remote/content/marionette/json.sys.mjs:59:24
deserializeJSON@chrome://remote/content/marionette/json.sys.mjs:293:16
json.deserialize@chrome://remote/content/marionette/json.sys.mjs:297:10
receiveMessage@chrome://remote/content/marionette/actors/MarionetteCommandsChild.sys.mjs:195:30
```

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Scraping complete! Data saved to scraped\_articles\_text\_headline\_date\_author.csv.

I seem to get an error with around 15 BBC Australia articles that specifically link to BBC Sport (for some reason it seems that only BBC Australia does this), which uses a different source code

than the rest of the BBC's website. I did not have time to mitigate the issue, but I believe it could be solved by adding extra `CSS_SELECTOR` codes that work with the BBC.com/Sport website as well the rest of the website.

Discussion: Discuss whether it would make sense to include this newly acquired data in the dataset. Argue why or why not and if possible include statistics to support your claim.

Text: A very relevant data point, as it could be used for analyzing language and discourse patterns within news articles. This could be especially useful when comparing mainstream media with misinformation or fake news sources, identifying recurring themes, stylistic differences, or emotional tone. On the other hand, the text parameter is fairly long, so analyzing it might take a lot of resources compared to if we simply analyze summaries or 'content'.

Headline: A crucial parameter, which should identify the main content of the article and potential clickbait.

Published date: Could also be useful since current affairs evolve rapidly, and the timing of an article's publication can influence its impact. For instance, analyzing the frequency and timing of certain narratives could help track how news cycles develop over time. However, at the time of writing that seems a little out of scope for this course.

Authors: If we consider only the BBC as a source, I think it would be redundant to include authors as a data point since we can be pretty sure that all articles from the BBC are reliable, regardless of the author. For other sources, namely Fake News website, political websites or biased website, it might be more relevant, since some outlets are more open to letting e.g. conspiracy theorists contribute. All in all, it could be a relevant datapoint, depending on our goals.